## IN THE CLAIMS:

Cancel Claims 1-63 without prejudice and substitute attached Claims 64-91: Claims 1-63. Cancelled

- 64. A process for making aluminosilicates of zeolite N structure comprising the steps of:
  - (i) combining a water soluble monovalent cation, a solution of hydroxyl anions and an aluminosilicate to form a resultant mixture having a pH greater than 10 and a H<sub>2</sub>O/Al<sub>2</sub>O<sub>3</sub> molar ratio in the range 30 to 220;
  - heating and stirring the resultant mixture to a temperature of between 50° and the boiling point of the mixture for a time between 1 minute and 100 hours until a crystalline product of zeolite N structure is formed as determined by X-ray diffraction or other suitable characteristic; and
  - (iii) separating the zeolite N product as a solid from the mixture.
- 65. A process as claimed in claim 64 wherein the water soluble monovalent cation in step (i) is an alkali metal or an ammonium ion or mixtures of these ions.
- 66. A process as claimed in claim 65 wherein the alkali metal comprises a potassium ion.

- 67. A process as claimed in claim 65 wherein the alkali metal comprises both a potassium and sodium ion.
- 68. A process as claimed in claim 65 wherein the monovalent cation comprises both potassium and ammonium ions.
- 69. A process as claimed in claim 64 wherein the resultant mixture of step (i) also contains a halide.
  - 70. A process as claimed in claim 69 wherein the halide is chloride.
- 71. A process as claimed in claim 64 wherein the pH of the solution of hydroxyl ions is greater than 13.
- 72. A process as claimed in claim 64 wherein in step (ii) the resultant mixture is heated to a temperature of in the range 80°C to 95°C.
- 73. A process as claimed in claim 64 wherein the aluminosilicate has a Si:Al ratio in the range 1.0 to 5.0.
- 74. A process as claimed in claim 73 wherein the aluminosilicate has a Si:Al ratio in the range 1.0 to 3.0

- 75. A process as claimed in claim 73 wherein the aluminosilicate is a clay.
- 76. A process as claimed in claim 75 wherein the clay is kaolin, meta-kaolin or montmorillonite or mixtures thereof.
- 77. A process as claimed in claim 64 wherein in step (ii) said heating is carried out for a time in the range 2 to 24 hours.
- 78. A process as claimed in claim 64 wherein the molar ratio of  $H_2O/Al_2O_3$  in the mixture of step (i) is in the range 45 to 65.
- 79. A process as claimed in claim 64 wherein in step (i) a quantity of solid zeolite N is added to the mixture.
- 80. A process as claimed in claim 64 wherein caustic liquor remaining in the mixture after step (iii) is re-used as at least part of a solution of anions and cations in step (i) for subsequent production of additional zeolite N product.
- 81. A process as claimed in claim 66 wherein the amount of potassium utilized is governed by a molar ratio of  $K_2O/Al_2O_3$  in the range of 0.3 to 15.
  - 82. A process as claimed in claim 66 wherein the amount of potassium

utilized is governed by a molar ratio of K<sub>2</sub>O/Al<sub>2</sub>O<sub>3</sub> in the range of 0.0 to 15.

- 83. A process as claimed in claim 70 wherein the amount of chloride utilized is governed by a molar ratio of  $Kcl/Al_2O_3$  in the range of 0.0 to 15.
- 84. A process as claimed in claim 67 wherein the alkali metal is sodium and the amount of sodium utilized is governed by a molar ratio of  $Na_2O/Al_2O_3$  in the range of 0.0 to 2.5.
- 85. A process as claimed in claim 65 wherein the alkali metal is sodium and the amount of sodium utilized is governed by a molar ratio of NaCl/Al $_2$ O $_3$  in the range of 0.0 to 2.8.
- 86. A process as claimed in claim 70 wherein the amount of chloride utilized is governed by a molar ratio of  $NaCl/Al_2O_3$  in the range of 0.0 to 2.8.
- 87. A process as claimed in claim 80 wherein the amount of chloride utilized is governed by a molar ratio of  $Cl/Al_2O_3$  in the range of 0.0 to 6.5.
- 88. A process as claimed in claim 67 wherein the amount of sodium and potassium utilized is governed by a ratio of K/(K+Na) in the range 0.5 to 1.0

- 89. A process as claimed in claim 67 wherein the amount of sodium and potassium utilized is governed by a ratio of (K+Na-Al)/Si in the range 2.0 to 18.0.
  - 90. Zeolite N produced by the process of claim 64.
- 91. Zeolite N produced by the process of claim 64 having a composition according to the formula

$$(M1_{-a1}P_a)_{12}(Al_bSi_c)_{10}O_{40}(X_{1-d}Y_d)_z \text{ nH}_2O \text{ where}$$

M = alkali metal or ammonium

 $P = alkali \ metal, \ ammonium \ or \ metal \ cation(s) \ exchanged \ in \ lieu \ of \ alkali \ metal \ or \ ammonium$ 

X =halide and Y is an anion and

 $0 \le a \le 1$ ,  $1 \le c/b \le oc$ ,  $0 \le d \le 1$  and  $1 \le n \le 10$ .